

SEQUENCE LISTING

SEQ ID NO:1 CCX-CKR2 coding sequence

5 ATGGATCTGCATCTCTTCGACTACTCAGAGCCAGGGAACCTTCTCGGACATCAGCTGGCCATGCAACAGCAGCGAC
 TGCATCGTGGTGGACACGGTGATGTGTCCCAACATGCCCAACAAAAGCGTCCTGCTCTACACGCTCTCCTTCATT
 TACATTTTCATCTTCGTTCATCGGCATGATTGCCAACTCCGTGGTGGTCTGGGTGAATATCCAGGCCAAGACCACA
 GGCTATGACACGCACTGCTACATCTTGAACCTGGCCATTGCCGACCTGTGGGTGTCTCCTACCATCCCAGTCTGG
 GTGGTCACTCTCGTGCAGCACAACCAGTGGCCCATGGGCGAGCTCACGTGCAAAGTCACACACCTCATCTTCTCC
 ATCAACCTCTTCGGCAGCATTTTCTTCCTCACGTGCATGAGCGTGGACCGCTACCTCTCCATCACCTACTTCACC
 AACACCCCCAGCAGCAGGAAGAAGATGGTACGCCGTGTCGTCTGCATCCTGGTGTGGCTGCTGGCCTTCTGCGTG
 10 TCTCTGCCTGACACCTACTACCTGAAGACCGCTCACGTCTGCGTCCAACAATGAGACCTACTGCCGGTCTTCTAC
 CCGGAGCACAGCATCAAGGAGTGGCTGATCGGCATGGAGCTGGTCTCCGTTGTCTTGGGCTTTGCCGTTCCCTTC
 TCCATTATCGCTGTCTTCTACTTCTGCTGGCCAGAGCCATCTCGGCGTCCAGTGACCAGGAGAAGCACAGCAGC
 CGGAAGATCATCTTCTCCTACGTGGTGTCTTCTGTCTGCTGGCTGCCCTACCACGTGGCGGTGCTGCTGGAC
 ATCTTCTCCATCCTGCACTACATCCCTTTCACCTGCCGGCTGGAGCACGCCCTCTTACGGCCCTGCATGTACA
 15 CATGTCCTGTGCTGGTGCAGTGTGCGTCAACCCTGTCTCTACAGCTTCATCAATCGCAACTACAGGTACGAG
 CTGATGAAGGCCTTCATCTTCAAGTACTCGGCCAAAACAGGGCTCACCAAGCTCATCGATGCCTCCAGAGTCTCA
 GAGACGGAGTACTCTGCCTTGGAGCAGAGCACCAAATGA

20 SEQ ID NO:2 CCX-CKR2 amino acid sequence

MDLHLFDYSEPGNFSDISWPCNSSDCIVVDTVMCPNMPNKSULLYTLFSFIYIFIFVIGMIANSVVVWVNIQAKTT
 GYDTHCYILNLAIADLWVLTIPVWVSLVQHNQWPMGELTCKVTHLIFSINLFGSIFFLTMSVDRLYSITYFT
 NTPSSRKKMVRVVCILVWLLAFCVSLPDTYYLKTVTSASNNETYCRSFYPEHSIKEWLIGMELVSVVLGFVAVPF
 25 SIIAVFYFLLARAISSASSDQEKHSSRKIIIFSYYVFLVCLPYHVAVLDDIFSILHYIPFTCRLEHALFTALHVT
 QCLSLVHCCVNPVLYSFINRNYRYELMKAFIFKYSAKTGLTKLIDASRVSETEYSALQSTK

SEQ ID NO:3 CCX-CKR2.2 coding sequence

30 ATGGATCTGCACCTCTTCGACTACGCCGAGCCAGGCAACTTCTCGGACATCAGCT
 GGCCATGCAACAGCAGCGACTGCATCGTGGTGGACACGGTGATGTGTCCCAACA
 TGCCCAACAAAAGCGTCCTGCTCTACACGCTCTCCTTCATTTACATTTTCATCTTC
 GTCATCGGCATGATTGCCAACTCCGTGGTGGTCTGGGTGAATATCCAGGCCAAGA
 CCACAGGCTATGACACGCACTGCTACATCTTGAACCTGGCCATTGCCGACCTGTG
 GGTGTCTCCTACCATCCCAGTCTGGGTGGTCACTCTCGTGCAGCACAACCAGTGG
 35 CCCATGGGCGAGCTCACGTGCAAAGTCACACACCTCATCTTCTCCATCAACCTCT
 TCAGCGGCATTTTCTTCCTCACGTGCATGAGCGTGGACCGCTACCTCTCCATCACC
 TACTTCACCAACACCCCCAGCAGCAGGAAGAAGATGGTACGCCGTGTCGTCTGC
 ATCCTGGTGTGGCTGCTGGCCTTCTGCGTGTCTCTGCCTGACACCTACTACCTGAA
 GACCGTCACGTCTGCGTCCAACAATGAGACCTACTGCCGGTCTTCTACCCCGAG
 40 CACAGCATCAAGGAGTGGCTGATCGGCATGGAGCTGGTCTCCGTTGTCTTGGGCT
 TTGCCGTTCCCTTCTCCATTATCGCTGTCTTCTACTTCTGCTGGCCAGAGCCATC
 TCGGCGTCCAGTGACCAGGAGAAGCACAGCAGCCGGAAGATCATCTTCTCCTAC
 GTGGTGGTCTTCTTGTCTGCTGGCTGCCCTACCACGTGGCGGTGCTGCTGGACA
 TCTTCTCCATCCTGCACTACATCCCTTTCACCTGCCGGCTGGAGCACGCCCTCTTC
 45 ACGGCCCTGCATGTCACACAGTGCCTGTGCTGGTGCAGTGTGCGTCAACCCTG
 TCCTCTACAGCTTCATCAATCGCAACTACAGGTACGAGCTGATGAAGGCCTTCAT
 CTTCAAGTACTCGGCCAAAACAGGGCTCACCAAGCTCATCGATGCCTCCAGAGTG
 TCGGAGACGGAGTACTCCGCCTTGGAGCAAAACGCCAAGTGA

SEQ ID NO:4 CCX-CKR2.2 amino acid sequence

MDLHLFDYAEPGNFSDISWPCNSSDCIVVDTVMCPNMPNKS VLLYTLSFIYIFIFVIGM
IANSVVVWVNIQAKTTGYDTHCYILNLAIDLWVVLTPVWVVS LVQHNQWPMGEL
TCKVTHLIFSINLFGSIFFLTCMSVDRYLSITYFTNTPSSRKKMVRRVVCILVWLLAFC
5 VSLPDTYYLKT VTSASNNETYCRSFYPEHSIKEWLIGMELVSVVLGFAVPFSIIAVFYF
LLARAISSASSDQEKHSSRKIIFS YVVVFLVCWLPYHVAVLLDIFSILHYIPFTCRLEHAL
FTALHVTQCLSLVHCCVNPVLYSFINRNYRYELMKAFIFKYS AKTGLTKLIDASRVSE
TEYSALEQNAK

10 SEQ ID NO:5 CCX-CKR2.3 coding sequence

ATGGATCTGCATCTCTTCGACTACTCAGAGCCAGGGA ACTTCTCGGACATCAGCT
GGCCATGCAACAGCAGCGACTGCATCGTGGTGGACACGGT GATGTGTCCCAACA
TGCCCAACAAAAGCGTCCTGCTCTACACGCTCTCCTTC ATTTACATTTTCATCTTC
15 GTCATCGGCATGATTGCCAACTCCGTGGTGGTCTGGGTGA ATATCCAGGCCAAGA
CCACAGGCTATGACACGCACTGCTACATCTTGAACCTGG CCATTGCCGACCTGTG
GGTTGTCCTCACCATCCCAGTCTGGGTGGTCAGTCTCGT GCAGCACAACCAGTGG
CCCATGGGCGAGCTCACGTGCAAAGTCACACACCTCATCT TCTCCATCAACCTCT
TCGGCAGCATTTTCTTCTCCTCACGTGCATGAGCGTGGAC CGCTACCTCTCCATCACC
20 TACTTCACCAACACCCCCAGCAGCAGGAAGAAGATGGTAC GCCGTGTCTGTCTGC
ATCCTGGTGTGGCTGCTGGCCTTCTGCGTGTCTCTGCCTG ACACCTACTACCTGAA
GACCGTCACGTCTGCGTCCAACAATGAGACCTACTGCCGGT CCTTCTACCCCGAG
CACAGCATCAAGGAGTGGCTGATCGGCATGGAGCTGGTCTC CGTTGTCTTGGGCT
TTGCCGTTCCCTTCTCCATTGTCTGCTGTCTTCTACTTCCT GCTGGCCAGAGCCATC
25 TCGGCGTCCAGTGACCAGGAGAAGCACAGCAGCCGGAAGAT CATCTTCTCCTAC
GTGGTGGTCTTCTTGTCTGCTGGTTGCCCTACCACGTGGCG GTGCTGCTGGACAT
CTTCTCCATCCTGCACTACATCCCTTTCACCTGCCGGCTGG AGCACGCCCTCTTCA
CGGCCCTGCATGTCACACAGTGCCTGTCTGCTGGTGCAC TGCTGCGTCAACCCTGT
CCTCTACAGCTTCATCAATCGCAACTACAGGTACGAGCTGAT GAAGGCCTTCATC
30 TTCAAGTACTCGGCCAAAACAGGGCTCACCAAGCTCATCG ATGCCTCCAGAGTCT
CAGAGACGGAGTACTCTGCCTTGGAGCAGAGCACCAAATGA

SEQ ID NO:6 CCX-CKR2.3 amino acid sequence

MDLHLFDYSEPGNFSDISWPCNSSDCIVVDTVMCPNMPNKS VLLYTLSFIYIFIFVIGM
35 IANSVVVWVNIQAKTTGYDTHCYILNLAIDLWVVLTPVWVVS LVQHNQWPMGEL
TCKVTHLIFSINLFGSIFFLTCMSVDRYLSITYFTNTPSSRKKMVRRVVCILVWLLAFC
VSLPDTYYLKT VTSASNNETYCRSFYPEHSIKEWLIGMELVSVVLGFAVPFSIVAVFY
FLLARAISSASSDQEKHSSRKIIFS YVVVFLVCWLPYHVAVLLDIFSILHYIPFTCRLEHA
LFTALHVTQCLSLVHCCVNPVLYSFINRNYRYELMKAFIFKYS AKTGLTKLIDASRV
40 ETEYSALEQSTK

SEQ ID NO:7 CCX-CKR2.4 coding sequence

ATGGATCTGCATCTCTTCGACTACTCAGAGCCAGGGA ACTTCTCGGACATCAGCT
45 GGCCATGCAACAGCAGCGACTGCATCGTGGTGGACACGGT GATGTGTCCCAACA
TGCCCAACAAAAGCGTCCTGCTCTACACGCTCTCCTTC ATTTACATTTTCATCTTC
GTCATCGGCATGATTGCCAACTCCGTGGTGGTCTGGGTGA ATATCCAGGCCAAGA
CCACAGGCTATGACACGCACTGCTACATCTTGAACCTGGCC ATTGCCGACCTGTG

GGTTGTCCTCACCATCCCAGTCTGGGTGGTCAGTCTCGTGCAGCACAACCAGTGG
 CCCATGGGCGAGCTCACGTGCAAAGTCACACACCTCATCTTCTCCATCAACCTCT
 TCGGCAGCATTTTCTTCTCACGTGCATGAGCGTGGACCGCTACCTCTCCATCACC
 TACTTCACCAACACCCCCAGCAGCAGGAAGAAGATGGTACGCCGTGTCGTCTGC
 5 ATCCTGGTGTGGCTGCTGGCCTTCTGCGTGTCTCTGCCTGACACCTACTACCTGAA
 GACCGTCACGTCTGCGTCCAACAATGAGACCTACTGCCGGTCCTTCTACCCCGAG
 CACAGCATCAAGGAGTGGCTGATCGGCATGGAGCTGGTCTCCGTTGTCTTGGGCT
 TTGCCGTTCCCTTCTCCATTATCGCTGTCTTCTACTTCCTGCTGGCCAGAGCCATC
 TCGGCGTCCAGTGACCAGGAGAAGCACAGCAGCCGGAAGATCATCTTCTCCTAC
 10 GTGGTGGTCTTCTTGTCTGCTGGCTGCCCTACCACGTGGCGGTGCTGCTGGACA
 TCTTCTCCATCCTGCACTACATCCCTTTCACCTGCCGGCTGGAGCACGCCCTCTTC
 ACGGCCCTGCATGTCACACAGTGCCTGTCGCTGGTGCCTGCTGCGTCAACCCTG
 TCCTCTACAGCTTCATCAATCGCAACTACAGGTACGAGCTGATGAAGGCCTTCAT
 CTTCAAGTACTCGGCCAAAACAGGGCTCACCAAGCTCATCGATGCCTCCAGAGTC
 15 TCAGAGACGGAGTACTCTGCCTTGGAGCAGAGCACCAAATGA

SEQ ID NO:8 CCX-CKR2.4 amino acid sequence

MDLHLFDYSEPGNFSDISWPCNSSDCIVVDTVMCPNMPNKSVELLYTSLFIYIFIVIGM
 IANSVVVWVNIQAKTTGYDTHCYILNLAIADLWVVLTPVWVVSLLVQHNQWPMGEL
 20 TCKVTHLIFSINLFGSIFFLTCMSVDRYLSITYFTNTPSSRKKMVRRVVCILVWLLAFC
 VSLPDTYYLKTVTSASNNETYCRSFYPEHSIKEWLIGMELVSVVLGFAVPFSIIAVFYF
 LLARAISSDQEKHSSRKIIFSYYVVFVLCWLPYHVAVLLDIFSILHYIPFTCRLEHAL
 FTALHVTQCLSLVHCCVNPVLYSFINRNYRYELMKAFIFKYSAKTGLTKLIDASRVSE
 TEYSALEQSTK

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 SEQ ID NO:9 CCX-CKR2.5 coding sequence

ATGGATCTGCATCTCTTCGACTACTCAGAGCCAGGGAACTTCTCGGACATCAGCT
 GGCCGTGCAACAGCAGCGACTGCATCGTGGTGGACACGGTGATGTGTCCCAACA
 30 TGCCCAACAAAAGCGTCCTGCTCTACACGCTCTCCTTCATTTACATTTTCATCTTC
 GTCATCGGCATGATTGCCAACTCCGTGGTGGTCTGGGTGAATATCCAGGCCAAGA
 CCACAGGCTATGACACGCACTGCTACATCTTGAACCTGGCCATTGCCGACCTGTG
 GGTGTCCTCACCATCCCAGTCTGGGTGGTCAGTCTCGTGCAGCACAACCAGTGG
 CCCATGGGCGAGCTCACGTGCAAAGTCACACACCTCATCTTCTCCATCAACCTCT
 35 TCAGCAGCATTTTCTTCTCCTCACGTGCATGAGCGTGGACCGCTACCTCTCCATCACC
 TACTTCACCAACACCCCCAGCAGCAGGAAGAAGATGGTACGCCGTGTCGTCTGC
 ATCCTGGTGTGGCTGCTGGCCTTCTGCGTGTCTCTGCCTGACACCTACTACCTGAA
 GACCGTCACGTCTGCGTCCAACAATGAGACCTACTGCCGGTCCTTCTACCCCGAG
 CACAGCATCAAGGAGTGGCTGATCGGCATGGAGCTGGTCTCCGTTGTCTTGGGCT
 40 TTGCCGTTCCCTTCTCCATTATCGCTGTCTTCTACTTCCTGCTGGCCAGAGCCATC
 TCGGCGTCCAGTGACCAGGAGAAGCACAGCAGCCGGAAGATCATCTTCTCCTAC
 GTGGTGGTCTTCTTGTCTGCTGGTTGCCCTACCACGTGGCGGTGCTGCTGGACAT
 CTTCTCCATCCTGCACTACATCCCTTTCACCTGCCGGCTGGAGCACGCCCTCTTCA
 CGGCCCTGCATGTCACACAGTGCCTGTCGCTGGTGCCTGCTGCGTCAACCCTGT
 45 CCTCTACAGCTTCATCAATCGCAACTACAGGTACGAGCTGATGAAGGCCTTCATC
 TTCAAGTACTCGGCCAAAACAGGGCTCACCAAGCTCATCGATGCCTCCAGAGTCT
 CAGAGACGGAGTACTCCGCCTTGGAGCAGAGCACCAAATGA

SEQ ID NO:10 CCX-CKR2.5 amino acid sequence

MDLHLFDYSEPGNFSDISWPCNSSDCIVVDTVMCPNMPNKSVELLYTSLFIYIFIFVIGM
IANSVVVWVNIQAKTTGYDTHCYILNLAIDLWVVLTPVWVSVSLVQHNQWPMGEL
TCKVTHLIFSINLFSSIFFLTCMSVDRYLSITYFTNTPSSRKKMVERRVVCILVWLLAFC
5 VSLPDTYYLKTVTSASNNETYCRSFYPEHSIKEWLIGMELVSVVLGFAVPFSIIVFYF
LLARAIASSDQEKHSSRKIIFSYYVVFLVCWLPYHVAVLDDIFSILHYIPFTCRLEHAL
FTALHVTQCLSLVHCCVNPVLYSFINRNYRYELMKAFIFKYSAKTGLTKLIDASRVSE
TEYSALEQSTK

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